

**FREEMAN, ERNEST R.**

**Security Clearance:** TOP SECRET - DISCO

**Education:** BSEE, University of Miami, FL, 1955  
MEA, George Washington University, Washington, DC, 1966  
Sc.D., London Institute, 1977

**License:** Professional Engineer

**Affiliations:** IEEE - Fellow  
Association of Old Crows - Member  
Tau Beta Pi  
Association of Federal Communications Consulting Engineers - Member  
Frequency Management Advisory Council Department of Commerce -  
Member

**Experience Summary:**

Extensive experience in communications systems design, systems integration, EMC and spectrum management. Major areas of accomplishment primarily oriented toward system evaluation, concept and operational levels, both on a theoretical and empirical basis. Has made significant contributions to large environment spectrum management and analysis models as well as performing detailed analysis of specific radar and communications systems as the manager of the engineering department of the DOD EMC Analysis Center. Participated in the design of specialized telemetry and radar systems and also has done extensive work in instrumentation and measurement methods and techniques. Has designed over 200 mobile radio common carrier systems, and cellular systems for various locations.

**Professional Experience:**

1985 - Present      Sachs/Freeman Associates, Inc., Landover, MD  
Founder/Executive Advisor. Responsible for developing basic goals, operating plans, and policies for the corporation, and implementing board-approved plans. Directs company business within plan to achieve desired profit and return on invested capital goals. Directs and coordinates the activities of each unit and department within the company to ensure the achievement of business objectives. Exercises judgement in determining management direction for the company that

## **FREEMAN, ERNEST R. (CONTINUED)**

### **PROFESSIONAL EXPERIENCE (CONTINUED)**

will most adequately meet the needs of each major constituency that the company serves, including customers, owner-shareholders, and employees. Carries personal leadership responsibility to assure that the interests of each of these key groups are served in a manner that is consistent with company policy.

#### **Responsibilities include:**

- **Leadership:** Works with the corporation's board of directors for the development and approval of business objectives, policies, and plans that achieve company profitability and development goals. Communicates business objectives and plans within the company. Ensures that plans and policies are consistently understood and correctly interpreted and administered by subordinate executives and managers. Through policy statements, management actions, and written/verbal communication, sets the tone for the company's relations with its employees and customers.
- **Management:** Directs and oversees company operations to achieve planned performance goals. Assures that each company operating unit is properly designed to provide those functions required for the achievement of business objectives. Assures that each operating unit is properly organized, staffed, and directed to fulfill its responsibilities. Assures the development of planning and control systems and other management systems that may be required to ensure effective control of each company unit.
- **Resource Development:** Responsible for the development of organization and personnel, products/facilities/technology, and appropriate financial resources to secure the position of the company and to facilitate its planned development.

## **FREEMAN, ERNEST R. (CONTINUED)**

### **PROFESSIONAL EXPERIENCE (CONTINUED)**

- Strategic: Directs periodic review of company's strategic product/market or service/market position. Combines this information with corollary analysis of company products (services), technical capabilities, and financial resources; shapes appropriate strategic business plans and policies. Exerts a consistent force for the pursuit and achievement of approved plans for the future development of the company's business. May act for the board of directors in planning and directing investigations and negotiations concerning acquisitions and mergers.

1969 - 1985

SFA, Inc. Landover, MD

President and co-founder of SFA, Inc. (formerly Sachs/Freeman Associates, Inc.), Landover, Maryland.

Typical Projects: providing analytical models and data requirements for the Office of Telecommunications Policy; federal data base requirements and methods of implementation; radar system analysis for the Naval Weapons Laboratory; developing automation for a furniture company; developing computer programs for the Polaris, Poseidon and Trident programs for the Applied Physics Laboratory of Johns Hopkin's University; design of gun camera controls, preparation and presentation of training courses; development of engineering handbooks and standards; evaluation of automatic test equipment software and hardware. Prepared radio common carrier (mobile radio-telephone) systems design; EMS systems design; law enforcement communications system design; HF systems design.

1967 - 1969

The Vertex Corporation, Kensington, MD

Director - Electronics System Analysis. Fire control system analysis, antenna sidelobe and backlobe suppression device development of EMC, antenna pattern measurement error analysis, radar projectile tracking error analysis.

**FREEMAN, ERNEST R. (CONTINUED)**

**PROFESSIONAL EXPERIENCE (CONTINUED)**

- 1961 - 1967      Electromagnetic Compatibility Analysis Center (IITRI), Annapolis, MD  
Manager - Engineering Development Department. EMC modeling of all components of EMC problems including the environment, transmitters, receivers, antennas, propagation, data processing, etc. Supervision and guidance of spectrum signature measurement program. Technical development planning and project planning, evaluation and review. Evaluation of the SPADATS radar and the FD radar family. Frequency Assignment model development and programming.
- 1959 - 1961      Bell Telephone Laboratories, Whippany, NJ  
Member of the Technical Staff (RV). Large radar system analysis and operational evaluation, Data Link, ECCM and Beacon system studies, SAGE Improvement Program, Survivable Communication conceptual design and planning.
- 1956 - 1959      U.S. Air Force  
Communications-Electronics Officer - Responsible for radar and communications systems maintenance, operation and evaluation. Developed and implemented the USAF HF communications RATT circuit for all of South Korea. Taught C-E courses domestically and overseas. Command and flying experience. Graduate of USAF Communications School.
- 1955 - 1956      Douglas Aircraft, Santa Monica, CA  
Associate Engineer - Design of missile telemetry systems and associated specialized instrumentation and measurement techniques and procedures.

## **FREEMAN, ERNEST R. (CONTINUED)**

### **PUBLICATIONS:**

"AN APPROACH TO FREQUENCY ASSIGNMENT," IEEE Transactions on Electromagnetic Compatibility, EMC-8, No. 2, June 1966.

"MEASUREMENT OF THREE-DIMENSIONAL ABSOLUTE ANTENNA GAIN PATTERNS," E. R. Freeman and H. M. Sachs, for Rome Air Development Center, TR-68-492, December 1968.

"TECHNIQUES FOR SUPPRESSION OF SIDE-LOBE AND BACK-LOBE ENERGY FROM HIGH GAIN RADAR ANTENNA," E. R. Freeman and C. Smith, for Naval Weapons Laboratory, 5 May 1969.

"DEVELOPMENT OF RADAR TRANSMITTER DEVICES TO MEET EMC STANDARDS," E. R. Freeman and K. E. Gilliland, for Naval Electronics Systems Command 5 May 1969.

"DEVELOPMENT OF EMC MODELS FOR EVALUATING FIRE CONTROL SYSTEM PERFORMANCE," M. J. Feil, E. R. Freeman, T. A. Pendleton and H. M. Sachs, for Naval Weapons Laboratory, 5 May 1969.

"THE MEASUREMENT OF THREE-DIMENSIONAL ANTENNA PATTERNS," E. R. Freeman and H. M. Sachs, paper presented at National Aerospace Electronics Conference, 20 May 1969, at Dayton, Ohio, and published in conference proceedings.

"EMC MANAGEMENT - A SITUATION REPORT," E. R. Freeman and H. M. Sachs, invited paper presented at International Symposium on Electromagnetic Compatibility, 18 June 1969 at Asbury Park, New Jersey and published in symposium proceedings.

"SPECTRUM MANAGEMENT REQUIREMENTS FOR THE LAND-MOBILE SERVICES," SFA Staff Report for Office of Emergency Preparedness, 15 October 1969.

"USER'S MANUAL FOR INTRA-SYSTEM COMPATIBILITY ANALYSIS PROGRAM (ISCAP)," SFA Staff Report for Air Force Electronic Systems Division, February 1970.

"A MINIMAL DATA PROBABILISTIC MODEL FOR SPECTRUM MANAGEMENT," presented at International Conference on Communications, 9 June 1970 at San Francisco, California, and published in conference record.

## **FREEMAN, ERNEST R. (CONTINUED)**

### **PUBLICATIONS (CONTINUED)**

"IDENTIFICATION OF INFORMATION AND ASSOCIATED ANALYTICAL TECHNIQUES FOR THE SOLUTION OF FREQUENCY MANAGEMENT PROBLEMS," (4 Vols.) prepared for the Office of Telecommunications Policy under Contract DEP-SE-70-101.

"THE ANALYSIS/MEASUREMENT INTERFACE AND ECONOMIC CONSIDERATIONS," IEEE International Symposium, 1973.

"AN EVALUATION OF THE SELF-CHECK PROGRAM FOR THE AN/USM-335," Naval Air Test Center, February 1973.

"THE ROLE OF ECCM IN FRIENDLY ENVIRONMENT EMC," E. R. Freeman, Electro '76, May 1976. (Best Session Speaker Award).

"A STUDY OF DIGITAL USES AND STANDARDS FOR LAND MOBILE CHANNELS," for FCC, December 1976.

IEMCAP IMPLEMENTATION STUDY," Vols, I and II, RADC-TR-77-376, Rome Air Development Center, December 1977.

"THE IMPLEMENTATION OF INTRA-SYSTEM COMPATIBILITY ANALYSIS PROGRAMS," First ESTEC Spacecraft EMC Seminar, Noordwijk, Netherlands, May 1978.

"CAD TECHNIQUES FOR INTRASYSTEM EMC AT THE EQUIPMENT LEVEL," SPACECAD '79, Bologna, Italy, ESA SP-146, September 1979.

"ELECTROMAGNETIC COMPATIBILITY DESIGN GUIDE," Artech House, Boston, MA, 190 pgs., November 1981.

"INTERFERENCE SUPPRESSION TECHNIQUES FOR MICROWAVE ANTENNAS AND TRANSMITTERS," Artech House, Boston, MA, 350 pgs., January 1982.

"TV'S AURAL BASEBAND: ANOTHER CHANNEL FOR PAGING," Telocator, January 1984.

"ATTORNEY'S GUIDE TO ENGINEERING", Contributing Author, Matthew Beender, Inc., N.Y., 1986.

"EFFECTS OF NEW NARROW BAND TECHNOLOGIES IN AN URBAN ENVIRONMENT," URSI Meeting, Tel-Aviv University, May 1989.

**Mirza Ahmad**  
**Senior Engineer, Telecommunications Department**

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**Summary:**

Mr. Ahmad is experienced in radio telecommunications providing engineering, design, recommendations and evaluations in development of commercial, land mobile, microwave and digital radio systems as well as systems used by State, County and City emergency and non-emergency entities. More specifically, his experience includes; systems design involving state-of-the-art technology; cellular systems design; microwave analysis; radio; propagation studies; FCC licensing; equipment specifications; bid evaluations and recommendations. Further telecommunication experience includes; frequency analysis and planning; radio common carrier public safety trunking and SMR design and licensing; computer software development for propagation calculations. Among his experience, past work includes Alexandria, VA; and the Counties of Rockland, NY, Prince George's, MD; and City of Washington, DC. Mr. Ahmad has authored/co-authored numerous, unpublished SFA and client confidential reports and documents.

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**Education:** B.S. Electrical Engineering, West Virginia, University Morgantown, West Virginia, December 1980  
Completed Advanced Level Course Work in Antennas, Electromagnetics, Radar & Microwaves at West Virginia University 1981-1982  
Credits in Computer Architecture and Computer Networks at George Mason University, Fairfax, Virginia 1988-1989.

**Computer Hardware:** IBM PC, VAX 11/730

**Computer Software:** MS-DOS, BASIC, FORTRAN, Lotus 123, WordPerfect, Harvard Project Manager, Framework II, Auto Cad, NTIA Telecommunications Software

**Affiliations:** Institute of Electrical and Electronics Engineers (IEEE)  
IEEE Vehicular Technology Society  
IEEE Antennas & Propagation Society  
Armed Forces Communications and Electronics Association

**Professional Experience:**

**1986 - Present: Senior Engineer, SFA, Inc., Landover, MD.** Mr. Ahmad currently designs, engineers, evaluates and recommends systems in commercial and Land Mobile Radio communications for Cellular, Public Safety and Public Services for State, and Local government. Tasks include; VHF, UHF and 800 MHz trunked and conventional systems designs; Computer Aided Dispatch (CAD) designs; microwave network designs; communications traffic studies; frequency analysis and site designs; propagation calculations and system layout designs; writing system design reports; writing equipment specifications; evaluating bids; writing proposals.

**Professional Experience Continued:**

Mr. Ahmad designs and engineers communication systems for Cellular Radio Telephone, Paging & Two-Way Radio, Low Power TV, Wireless Cable, and Radio Common Carrier Telecommunications Systems. This includes UHF/VHF propagation analysis and calculations, coverage evaluation, frequency planning, interference analysis, equipment selection and evaluation and computer aided propagation design and calculations.

**1982 - 1986: Consulting Engineer, Surrey & Morse, Washington, DC.** Mr. Ahmad was involved in a broad range of disciplines for radio communication systems. His emphasis has been in the areas of high frequency radio-telephone such as cellular and specialized mobile radio (SMR), paging systems and microwave radio links, including digital termination systems (DTS), digital electronic message service (DEMS) and multiple distribution service (MDS), all parts of wide-band microwave services. Mr. Ahmad provided engineering support for systems design, including defining the technical parameters, selecting hardware, budgeting the system, conducting signal propagation analysis, interference analysis and site/terrain feasibility studies. His work required extensive contact with FCC personnel, equipment vendors and numerous other parties involved in the project.

**Presentations:**

MAS, MODERN TWO-WAY DATA, Communications Licensing Conference, Hosted by Rural Cellular Magazine, Washington, DC, Invited Speaker, October 1991.

**Publications:**

TO TRUNK OR NOT TO TRUNK, APCO Bulletin, September 1990.

RADIO COVERAGE DESIGN AND SYSTEM OPTIMIZATION, Mobile Radio Technology, February 1992.



**J. Robert Bounds**  
**Engineer V**

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**Summary:**

Mr. Bounds has more than 30 years of experience in antenna design, communication hardware development, and RF systems engineering. He has performed propagation and link analyses and he has specified antenna, transmitter, and receiver performance parameters. His background has included project engineering, functional management, program management, and proposal preparation responsibilities. Mr. Bounds' recent accomplishments include:

- Analyzing HF/VHF/UHF communications links for a classified electronic warfare study.
  - Serving as project engineer/program manager for a \$4.8M system integration program for a signal analysis system.
  - Preparing RF performance specifications for a high-dynamic range RF downconverter study proposal.
  - Selecting antennas, transmitters, receivers, and a frequency plan for a remote geophysical sensing system telemetry link.
  - Managing a high-dynamic range RF downconverter-A/D converter development program for a DoD Agency.
  - Directing the development of new HF communication products, including the SCANCALL 100 transceiver, an automatic antenna coupler, a mobile 100-watt transceiver, and a low-cost aircraft transceiver.
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**Education:** M.S., *Engineering Administration*, George Washington University, Washington, DC, 1980

B.S., *Electrical Engineering*, University of Virginia, Charlottesville, VA, 1960

**Affiliations:** Armed Forces Communications and Electronics Association  
Institute of Electrical and Electronics Engineers  
Institute of Navigation  
Navigation Foundation

**Clearance:** TOP SECRET/SI (pending)

**Experience:**

**May 1992 to Present:** *Senior Electrical Engineer*, SFA Inc., Landover, MD. Mr. Bounds provides high-level technical oversight on engineering programs at SFA's Lexington Park office. He is responsible for business development and proposal preparation, and he will function as a program manager on various efforts as required. Mr. Bounds is responsible for business development at the Naval Air Warfare Center - Aircraft Division, the Naval Electronic Systems Engineering Activity, and other government agencies.

**1991 to May 1992:** *Director of Programs*, Metratek, Inc., Falls Church, VA. Mr. Bounds directed all microwave and radar programs.

**1990 to 1991: *Program Director, Fairchild Defense, Germantown, MD.*** Mr. Bounds was responsible for the Modem Test Set production program. He also coordinated numerous proposal efforts.

**1984 to 1990: *Program Director, Martin Marietta Ocean Systems Operations (formerly Gould Inc.), Glen Burnie, MD.*** Mr. Bounds was responsible for signals intelligence (SIGINT) hardware development, RF systems engineering, systems integration, and logistic support programs. He served as a client liaison and was responsible for the staffing, budgeting, scheduling and management of all programs; the preparation of status and financial reports and reviews; and the management of the marine navigation business area. He developed and implemented marketing strategies and plans and was directly involved in proposal efforts.

**1982 to 1983: *Member of the Technical Staff, ElectroSpace Systems, Inc., Arlington, VA.*** Mr. Bounds provided engineering assistance to the NAVELEX program manager for the Navy's fixed VLF transmitting stations.

**1980 to 1982: *Vice President, Director of Engineering, Sunair Electronics, Inc., Fort Lauderdale, FL.*** Mr. Bounds was responsible for the operation of the Engineering Department—including product engineering, systems engineering, and engineering support. He was involved in the development of new HF communications products and he performed engineering activities that supported marketing and manufacturing efforts.

**1977 to 1980: *Chief, Special Projects Division, Voice of America, USICA, Washington, DC.*** Mr. Bounds directed all major construction and modernization projects for VOA facilities worldwide. He was responsible for the expansion of the Liberian and Philippine HF relay stations, which involved building construction, installation of 250 kW transmitters and curtain arrays, and power plant expansion in Liberia. He held discussions with government representatives in Sri Lanka regarding expansion of the relay station in Colombo. He was responsible for the activities of a division composed of planning and development, project management, construction and installation, and engineering branches.

**1976 to 1977: *Senior Scientist, Computer Sciences Inc., Falls Church, VA.*** Mr. Bounds assisted the NAVELEX development manager for submarine communications. He prepared program plans for the development of towed buoy communication systems and expendable communication buoys.

**1974 to 1976: *Senior Engineer, Sencor, Inc., Riverdale, MD.*** Mr. Bounds provided technical and management support to the Navy's shipboard surveillance radar development programs.

**1966 to 1974: *Engineering Section Head, ITT Electro Physics Laboratory, Columbia, MD.*** Mr. Bounds was responsible for the management of HF radar and communications projects and for the supervision of antenna, transmitter, and receiver design sections.

**1965 to 1966: *Senior Engineer, Honeywell Test Instruments Division, Annapolis, MD.*** Mr. Bounds worked on a BUSHIPS contract in support of various communication systems.

**1964 to 1965: *Senior Engineer, Antenna Research Associates, Beltsville, MD.*** Mr. Bounds participated in the development of electrically small antennas in the HF and VHF ranges.

**1960 to 1964: *Development Engineer, ACF Electro-Physics Laboratory, Bladensburg, MD.*** Mr. Bounds participated in the design and development of HF antenna arrays, feed systems, and steering hardware.

**Katherine Y. Ernhart**  
**Engineer II**

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**Summary:**

Ms. Ernhart has 4 years of experience in the research and development, hardware/software implementation, and test and evaluation of electronic systems. She is proficient in all stages of microprocessor-based designs, from conception through board design and layout, to ROMable coding. In addition, Ms. Ernhart has been involved in the planning, design, development, and implementation of electrical, mechanical, and electromechanical diagnostic systems using an artificial intelligence, model-based expert system.

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**Education:** Currently pursuing a master's degree in electrical engineering, with a specialization in computer engineering, from the Johns Hopkins University, Baltimore, MD. Degree expected in December 1992. Graduate courses include: Theory of Digital Systems, Computer Architecture, Microprocessor Systems, Parallel Processing Systems, Digital Design for Testability and Fault Tolerance, Data Communication Networks.

B.S., *Electrical Engineering*, Case Western Reserve University, Cleveland, OH, May 1989. Senior Project I: Design of a Fiber-Optic Switch/Distribution Network for an Optical Data Bus Tester (Sponsored by IBM). Senior Project II: Design and Implementation of a Small Force Sensor Based on Fabry-Perot Interference.

**Languages:** C, Pascal, Assembly, LISP, PADS, PALASM, ABEL, and PSpice.

**Clearance:** SECRET

**Experience:**

**September 1991 to Present:** *Systems Engineer*, SFA Inc., Landover, MD. Ms. Ernhart is primarily involved in the planning, design, development, and implementation of electrical, mechanical, and electromechanical diagnostic systems using an artificial intelligence, model-based expert system.

**March 1991 to September 1991:** *Systems Design Engineer*, Softaid, Inc. Ms. Ernhart developed the digital circuitry required to implement an 80386SX in circuit emulator (ICE) and assisted in the development of emulators for the 68000 microprocessor family. Ms. Ernhart also wrote a table-driven assembler/disassembler for the 80186/188 and 68000 microprocessor families for use in the ICE debugging environment. For the same debugger, Ms. Ernhart developed utilities in "C" to translate file structure information from various compiler's object file formats, including COFF (Common Object File Format). Ms. Ernhart also edited the user's manual for technical and grammatical accuracy. She supported clients throughout their development cycles.

**June 1989 to February 1991:** *Assistant Engineer*, IIT Research Institute/ECAC. Ms. Ernhart developed a dynamic scenario from tactical and strategic principles. She researched technical characteristics of both present and planned U.S. and NATO IFF identification systems for reasonability analysis. She developed a model, from conception through coding,

which calculates antenna coupling between two moving targets based on relative positions and platform dynamics. This effort included authoring the relevant portion of a user's manual, describing theory and application. She improved and verified a model which calculates azimuthal antenna pattern. Ms. Ernhart researched and developed a briefing on the evolution of IFF systems for presentation to a new sponsor and contractor employees.

**May 1988 to August 1988: *Summer Pre-professional*, IBM Corporation, Systems Integration Division.** Ms. Ernhart designed a fiber-optic switch/distribution network for an optical data bus tester, and prepared and presented a design review from which no action items or design changes resulted. She specified all required fiber-optic cable assemblies according to necessary military specifications. She documented theory of operation and test procedures. She also became familiar with the programming of PLD's.

**January 1988 to May 1988: *Part-time Instructor*, Cleveland Institute of Electronics.** Ms. Ernhart answered students' telephone and written queries on such subjects as differential equations, Fourier and Laplace transforms, digital and communications circuitry, and basic circuit theory.

**June 1987 to January 1988: *Co-operative Education Position*, IBM Corporation, Federal Systems Division.** Ms. Ernhart initiated design changes in logic boards for an RF transceiver tester after debugging and correcting manufacturing errors. She was in charge of all documentation using IBM's automated logic design system. She tested RF subassemblies and debugged an analog-to-digital logic board.

EXHIBIT E

AMERICAN CRYPTRONICS, INC. LETTER TO  
PAGEMART REGARDING  
PROTOTYPE OF PCMCIA-STANDARD RECEIVER CARD

AMERICAN CRYPTRONICS INC.



October 5, 1992

Mr. Roger D. Linquist  
Chairman & CEO  
PageMart, Inc.  
6688 North Central Expy  
Dallas, TX 75206

Dear Mr. Linquist:

This letter is intended to summarize the status of our development of a PCMCIA compatible paging receiver card and the subsequent development by American Cryptronics, Inc. (ACI) of a next generation transceiver, PCMCIA compatible card for use in a wide variety of notebook and palmtop computers including PDAs and pocket organizers. This development was initiated following our initial discussion with PageMart in the fourth quarter of 1991 and subsequently began in first quarter of 1992.


In the second quarter of 1992, we developed a working prototype of the 900 MHz PCMCIA paging receiver card which is currently in final design and testing. The card is intended to meet all the one-way communication needs of commercially available personal portable computers using a type II PCMCIA "slot."

We are currently in the process of prototyping a PCMCIA transceiver card that can be used with PageMart's PIMS system. The most important part of the PCMCIA transceiver card development will be accomplished with the receiver section. ACI foresees no technical feasibility issues with integrating a low power transmitter on the same card.

ACI is committed to being an important supplier of PCMCIA communications related peripherals to the portable personal computer industry and is currently working with computer manufacturers to commercialize this development. The follow-on steps of manufacturing a transceiver for the PIMS experimental testing is in progress and we believe there are many other application for the two-way PCMCIA card.

We at ACI look forward to a continued working relationship with PageMart for the development of future communication related computer peripherals.

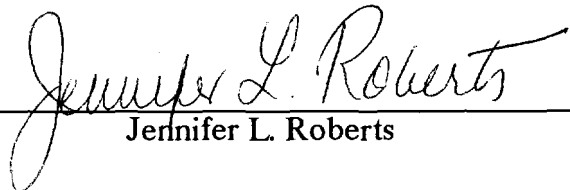
Sincerely,



Gary H. Kerkert  
Executive Vice President

## CERTIFICATE OF SERVICE

I, Jennifer L. Roberts, do hereby certify on this 15th day of December, 1992, that I have served a copy of the foregoing document via first class mail, postage prepaid, or via hand delivery to the persons below.

  
Jennifer L. Roberts

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Office of Engineering and  
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Federal Communications Commission  
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